(1987 COE Wetlands Determination Manual)

Project Name:	ATC North Madison to Huiskamp	Date:	09/14/2005
Project Number:	2005-0194	County:	Dane
Observers:	RGD	State:	WI
		Quarter:	SE
Plant Community Area:	P1	Section:	22
Transect:	T1	Township:	9N
Sample Site:	P1T1S1	Range:	9E

### **VEGETATION**

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Erigeron philadelphicus	Н	FACW
Echinochloa crusgalli	Н	FACW	Urtica dioica	Н	FAC+
Solanum dulcamara	Н	FAC			
Sonchus arvensis	Н	FAC-			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		75.0%			
Remarks:					
Ponding area along drain west of cu	ılvert under ro	ad.			

### **HYDROLOGY**

ators:
ed
ed in Root Zone
flarks ☐ None es
nt Deposits
e Patterns in Wetlands ay
dicators (2 or more required):
ed Root Channels in Root Zone Stained Leaves Soil Survey Data eutral Test Explain in Remarks)
er (executed)

	VIRGIL SILT L		Drainage Class	s: Somewhat Poorly
Faxonomy (Subgroup):	Udollic Ochraq	•		
		Field Observ	vations Confirm Map	pped Type? <b>No</b>
Profile Description:			• • • • • • • • • • • • • • • • • • • •	<b>-</b>
_	Matrix Color lunsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	Texture, Concretions, Structure, Etc.
0 to 4 A	10YR 2/1	none	none	SiL
4 to 9 B1	101R 2/1	10YR 4/6	f2d	SiCL
9 to 14 B2	10YR 4/2	10YR 4/6	f2d	SiCL
Hydric Soil Indicators:				
☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regi ☐ Reducing Conditions ☐ Gleyed ☑ Low-Chroma Colors  USDA Hydric Soils Field	☐ High ( ime ☐ Organ S ☐ Listed ☐ Listed ☐ Other Indicator: F2	retions Organic Content i nic Streaking in S d on Local Hydric d on National Hyd r (Explain in Rema	andy Soils Soils List ric Soils List	
	Unk	known		
Remarks:	WETLAND DE ses exist in the ad/or hydrology	ETERMINATION  plant community? been significantl	• •	Yes , explain) No No
Do normal circumstand Have the veg., soils, ar	WETLAND DE ses exist in the ad/or hydrology	ETERMINATION  plant community? been significantl	• •	, explain) No

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/14/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SE Quarter: Plant Community Area: Section: 22 P1 Transect: T1 Township: 9N Sample Site: P1T1S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Acer negundo	Т	FACW-	Solanum dulcamara	Н	FAC
Phalaris arundinacea	Н	FACW+	Cichorium intybus	Н	UPL
Picea glauca	Т	FACU	Bromus inermis	Н	NI
Rhamnus cathartica	Н	FACU	Parthenocissus inserta	V	FACU
Arctium minus	Н	NI			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		40.0%			
Remarks: Sample point taken along road bern	n.				

HYDROLOGY		
☐ Recorded Data (Describe i	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone ☐ Water Marks ✓ None
Field Observations:		☐ Drift Lines None
Depth of Surface Water:	110110	☐ Sediment Deposits
Depth of Soil Pit:	14	☐ Drainage Patterns in Wetlands
Depth to Free Water in Pit:	None	☐ Floodway
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):
Remarks:  No primary or secondary indicators of		<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name:	VIRGIL SILT L	OAM,	Drainage Class	: Somewhat Poorly
Taxonomy (Subgroup)	): Udollic Ochrac	qualfs		
		Field Obser	vations Confirm Map	ped Type? <b>No</b>
Profile Description:			·	
Frome Description.	Matrix Color	Mottle Color	Mottle	Texture, Concretions,
Depth (in.) Horizon	(Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 4 A	10YR 2/2	none	none	L
4 to 14 B	10YR 3/3	none	none	SiCL / gravel
Hydric Soil Indicator	e·			
<ul><li>☐ Histosol</li><li>☐ Histic Epipedon</li></ul>		t Mottling Within a	Depleted Matrix	
Sulfidic Odor		retions Organic Content i	in Surface Lavor	
☐ Aquic Moisture R		nic Streaking in S		
Reducing Condition		d on Local Hydric		
Gleyed		d on National Hyd		
☐ Low-Chroma Col	ors U Other	r (Explain in Rema	arks)	
USDA Hydric Soils Fie				
NRCS Mapped Type:	Unl	known		
Remarks:				
No hydric soil indicators obs	served - appeared to b	e gravelly raod fill.		
1				
SITE CONDITIONS A	ND WETLAND D	ETERMINATION		
Site Conditions:				
Do normal circumsta	ances exist in the	plant community?	? (If no, explain)	Yes
Have the veg., soils	, and/or hydrology	been significantl	y disturbed? (If yes,	explain) <b>No</b>
Is the site a problem	area? (If yes, ex	plain)		No
Remarks:				
itemarks.				
	_			
Wetland Determinat				
Based on the forego	•			
Are Hydrophytic Pla		No Is Th	nis Sampling Point W	/ithin A Wetland?
Is Wetland Hydrolog	gy Present?	No		Titilit A Welland:
Are Wetland Soils P	resent?	No	No	
Remarks:				

(1987 COE Wetlands Determination Manual)

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Project Name:	ATC North Ma	adison to H	łuiskamp Date:	09/14/2005
Project Number:	2005-0194		County:	Dane
Observers:	RGD		State:	WI
			Quarter:	NE
Plant Community Area:	P2		Section:	15
Transect:	T1		Township:	8N
Sample Site:	P2T1S1		Range:	
VEGETATION				
<b>Dominant Plant Species</b>		<u>Indicator</u>	Secondary Plant Species	Stratum Indicator
Phalaris arundinacea	Н	FACW+		
1				
Percent of Dominant Species th	hat are			
OBL, FACW or FAC (excluding		100.0%		
l				
1				
1				
Remarks:				
Monotypic reed canary grass.				
71				
HYDROLOGY				
☐ Recorded Data (Descri		s <u>):</u>	Wetland Hydrology Indicators:	
☐ Stream, Lake or Tide	Gauge		Primary Indicators:	
Aerial Photo			☐ Inundated	
✓ Other			✓ Saturated in Root Zon ✓ Water Marks	e
Field Observations:			☐ Drift Lines	None
Depth of Surface Water	: None		☐ Sediment Deposits	
Depth of Soil Pit:	15		☐ Drainage Patterns in \	Vetlands
Depth to Free Water in			☐ Floodway	
Depth to Saturated Soil:			Secondary Indicators (2 or	more required):
·			Oxidized Root Chann	
Remarks:			☐ Water-Stained Leave	
Aerial photo and USGS topograp	hic map show a di	tch.	<ul><li>Local Soil Survey Date</li><li>FAC-Neutral Test</li></ul>	ta
			☐ Other (Explain in Ren	narks)
			☐ None	

Map Unit Name: Taxonomy (Subgroup):	ELBURN SILT Aquic Argiudol		Drainage Class:	: Somewhat Poorly
		Field Observ	vations Confirm Map	ped Type? <b>No</b>
Profile Description:	Motrix Color	Mottle Calar	Mottle	Touture Consertions
	Matrix Color Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	<u>Texture, Concretions,</u> <u>Structure, Etc.</u>
0 to 6 A	10yR 3/1	none	none	SiL
6 to 15 B	10YR 3/1	10YR 4/6	c2d	SiCL
Hydric Soil Indicators:	:			
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Reducing Condition ☐ Gleyed ☑ Low-Chroma Color  USDA Hydric Soils Field NRCS Mapped Type: Remarks:	Gonce Gime Gorgan  Gime Gorgan  Gorgan  Listed  Listed  The Conce  Gorgan  Conce  Conc	t Mottling Within a retions Organic Content i nic Streaking in Sa d on Local Hydric d on National Hyd r (Explain in Rema	n Surface Layer andy Soils Soils List ric Soils List	
SITE CONDITIONS AND	D WETLAND DE	ETERMINATION		
Site Conditions:  Do normal circumstan	nces eviet in the	nlant community?	(If no evoluin)	Yes
Have the veg., soils, a			` ' '	
Is the site a problem a	, ,,		. , , , , , , , , , , , , , , , , , , ,	No
Remarks:				
Wetland Determination Based on the foregoin Are Hydrophytic Plant Is Wetland Hydrology Are Wetland Soils Pre Remarks:	ng: ts Dominant? Present?	Yes Is Th Yes Yes	is Sampling Point W <b>Yes</b>	ithin A Wetland?

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/14/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NE Quarter: Plant Community Area: Section: 15 P2 Transect: T1 Township: 8N Sample Site: P2T1S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Poa pratensis	Н	FAC-	Phalaris arundinacea	Н	FACW+
Pastinaca sativa	Н	NI	Taraxacum officinale	Н	FACU
Cirsium arvense	Н	FACU			
Percent of Dominant Species tha OBL, FACW or FAC (excluding FAC)		0.0%			
Remarks:					
Sample point on slightly sloping mo	wed area adja	cent to ditch/dr	ain.		

HYDROLOGY		
☐ Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gau	ıge	Primary Indicators:
Aerial Photo		☐ Inundated
☐ Other		<ul><li>☐ Saturated in Root Zone</li><li>☐ Water Marks</li><li>✓ None</li></ul>
Field Observations:		☐ Drift Lines None
Depth of Surface Water:	None	☐ Sediment Deposits
Depth of Soil Pit:	14	☐ Drainage Patterns in Wetlands
Depth to Free Water in Pit:	None	Floodway
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):
Remarks: Aerial photo shows grassy area adjace	nt to ditch.	<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

SOILS				
Map Unit Name:	ELBURN SILT	LOAM	Drainage Clas	s: Somewhat Poorly
Taxonomy (Subgroup):	Aquic Argiudol	ls		
		Field Obser	vations Confirm Ma	pped Type? <b>No</b>
Profile Description:				
·	Matrix Color	Mottle Color	<u>Mottle</u>	Texture, Concretions,
Depth (in.) Horizon (	(Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 5 A	10YR 3/2	none	none	SiL
5 to 8 B1	10YR 3/2	none	none	SiCL
8 to 14 B2	10YR 3/2 and 4/4	none	none	SICL/ gravel
Hydric Soil Indicators	:			
Histosol	☐ Briaht	Mottling Within a	Depleted Matrix	
☐ Histic Epipedon	☐ Conc	retions	·	
<ul><li>☐ Sulfidic Odor</li><li>☐ Aquic Moisture Re</li></ul>		Organic Content		
Reducing Condition		nic Streaking in S d on Local Hydric		
☐ Gleyed	Listed	d on National Hyd		
☐ Low-Chroma Colo		· (Explain in Rema		
USDA Hydric Soils Fiel	d Indicator: Nor	ne		
NRCS Mapped Type:	Unk	nown		
Remarks:				
Appears to be filled with tops	oil above. No hydric	soil indicators noted.		
SITE CONDITIONS AN	D WETLAND DE	ETERMINATION		
Site Conditions:				
Do normal circumstar		•	• •	Yes
Have the veg., soils,	, ,,	•	y disturbed? (If yes	, explain) <b>No</b>
Is the site a problem	area? (If yes, exp	olain)		No
Remarks:				
Wetland Determination	on:			
Based on the foregoing				
Are Hydrophytic Plan	_	No		
Is Wetland Hydrology		No Is Th	is Sampling Point \	Within A Wetland?
Are Wetland Soils Pro		No	No	
	500m:	140	_	
Remarks:				

(1987 COE Wetlands Determination Manual)

Project Name:	ATC North Madison to Huiskamp	Date:	09/14/2005
Project Number:	2005-0194	County:	Dane
Observers:	RGD	State:	WI
		Quarter:	SE
Plant Community Area:	P3	Section:	15
Transect:	T1	Township:	8N
Sample Site:	P3T1S1	Range:	9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Sonchus arvensis	Н	FAC-
			Scirpus atrovirens	Н	OBL
			Typha latifolia	Н	OBL
Percent of Dominant Species that	t are		Carex spp.	Н	
OBL, FACW or FAC (excluding FA		100.0%			
Remarks:					
Low wet area associated with a drain running out of an agricultural field.					

HYDROLOGY					
☐ Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:			
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:			
Aerial Photo		☐ Inundated			
✓ Other		<ul><li>☐ Saturated in Root Zone</li><li>☐ Water Marks</li><li>☐</li></ul>			
Field Observations:		☐ Drift Lines ☐ None			
Depth of Surface Water:	None	☐ Sediment Deposits			
Depth of Soil Pit:	18	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>			
Depth to Free Water in Pit:	None				
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):			
Domonico		<ul><li>Oxidized Root Channels in Root Zone</li><li>Water-Stained Leaves</li></ul>			
Remarks:					
Aerial photo and USGS topographic m	nap show a drain and	Local Soil Survey Data			
associated deperssion.		▼ FAC-Neutral Test			
		Other (Explain in Remarks)			
		☐ None			

Map Unit Na		RADFORD SII		Drainage Class	: Somewhat Poorly		
Taxonomy (	Taxonomy (Subgroup): Fluventic Hapludolls						
			Field Obser	vations Confirm Map	ped Type? <b>No</b>		
Profile Des	cription:	Matrix Color	Mottle Color	Mottle	Texture, Concretions,		
Depth (in.)	<u>Horizon</u>	(Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.		
0 to 7	Α	10YR 3/2	none	none	SiL		
7 to 18	8 B 10YR 3/2 10YR 4/6 c2d SiCL						
Hydric Soil Indicators:							
-		_					
<ul><li>☐ Histosol</li><li>☐ Histic Epipedon</li><li>☐ Concretions</li><li>☐ Depleted Matrix</li><li>☐ Concretions</li></ul>							
☐ Sulfidic Odor ☐ High Organic Content in Surface Layer							
	<ul> <li>□ Aquic Moisture Regime</li> <li>□ Organic Streaking in Sandy Soils</li> <li>□ Reducing Conditions</li> <li>□ Listed on Local Hydric Soils List</li> </ul>						
☐ Gleyed	ľ	☐ Listed	d on Local Hydric d on National Hyd				
✓ Low-C	✓ Low-Chroma Colors						
•	USDA Hydric Soils Field Indicator: F6						
Remarks:	NRCS Mapped Type: Unknown						
Oxidized rhizospheres at 7-10 inches.							
Sixulzed Inizosphored at 7 16 mondo.							
SITE CONDITIONS AND WETLAND DETERMINATION							
Site Conditions:							
		ances exist in the	•		Yes		
	•		· ·	y disturbed? (If yes,	• ,		
Is the site a problem area? (If yes, explain)							
Remarks:							
Watland D	_4						
Wetland D	the forego	_					
	_	ints Dominant?	Yes				
-		gy Present?	Yes Is Th	nis Sampling Point W	/ithin A Wetland?		
	nd Soils P		Yes	Yes			
Remarks:							

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/14/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SE Quarter: Plant Community Area: Section: 15 P3 Transect: T1 Township: 8N Sample Site: P3T1S2 Range: 9E

<b>Dominant Plant Species</b>	<b>Stratum</b>	<u>Indicator</u>	<b>Secondary Plant Species</b>	<b>Stratum</b>	<u>Indicator</u>
Poa pratensis	Н	FAC-	Phalaris arundinacea	Н	FACW+
Daucus carota	Н	NI	Sonchus arvensis	Н	FAC-
Pastinaca sativa	Н	NI	Taraxacum officinale	Н	FACU
			Trifolium pratense	Н	FACU+
			Cichorium intybus	Н	UPL
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		0.0%			
Remarks:			1		
Sample point along edge of road be	rm.				

HYDROLOGY		
☐ Recorded Data (Describe i ☐ Stream, Lake or Tide Ga ☐ Aerial Photo ☐ Other	,	Wetland Hydrology Indicators:  Primary Indicators:  ☐ Inundated ☐ Saturated in Root Zone
Field Observations: Depth of Surface Water: Depth of Soil Pit: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	None 12 None None	<ul> <li>Water Marks</li> <li>Drift Lines</li> <li>Sediment Deposits</li> <li>Drainage Patterns in Wetlands</li> <li>Floodway</li> <li>Secondary Indicators (2 or more required):</li> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name: RADFORD SILT LOA Drainage Class: Somewhat Poorly Taxonomy (Subgroup): Fluventic Hapludolls					
		Field Observ	ations Confirm Map	ped Type? <b>No</b>	
<b>Profile Description:</b>	March	Marila O. I	Marcel	T. ( O	
Depth (in.) Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	<u>Texture, Concretions,</u> <u>Structure, Etc.</u>	
0 to 3 A	10YR 3/1	none	none	SiL	
3 to 12 B	10YR 4/4	none	none	SiCL/gravel	
Hydric Soil Indicators:  Histosol   Bright Mottling Within a Depleted Matrix   Histic Epipedon   Concretions   Sulfidic Odor   High Organic Content in Surface Layer   Aquic Moisture Regime   Organic Streaking in Sandy Soils   Reducing Conditions   Listed on Local Hydric Soils List   Low-Chroma Colors   Other (Explain in Remarks)  USDA Hydric Soils Field Indicator: None   NRCS Mapped Type: Unknown   Unkn					
Based on the forego Are Hydrophytic Pla Is Wetland Hydrolog Are Wetland Soils P	oing: nts Dominant? gy Present?	No No Is Th No	is Sampling Point W <b>No</b>	ithin A Wetland?	
Remarks:					

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/14/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI Quarter: NE Plant Community Area: Section: 22 P4 Transect: T1 Township: 8N Sample Site: P4T1S1 Range: 9E

<b>Dominant Plant Species</b>	<b>Stratum</b>	<b>Indicator</b>	<b>Secondary Plant Species</b>	<b>Stratum</b>	<b>Indicator</b>
Phalaris arundinacea	Н	FACW+	Salix amygdaloides	Т	FACW
Salix interior	S	OBL	Typha latifolia	Н	OBL
			Scirpus atrovirens	Н	OBL
			Populus deltoides	Т	FAC+
Percent of Dominant Species tha	nt are		Acer negundo	T	FACW-
OBL, FACW or FAC (excluding F		100.0%	Ribes americanum	S	FACW
			Solidago gigantea	Н	FACW
			Vitis riparia	V	FACW-
			Cornus sericea	S	FACW
			Polygonum amphibium	Н	OBL

HYDROLOGY		
☐ Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gau	ge	Primary Indicators:
Aerial Photo		☐ Inundated
☐ Other		✓ Saturated in Root Zone
Field Observations:		<ul><li>☐ Water Marks</li><li>☐ Drift Lines</li><li>☐ None</li></ul>
Depth of Surface Water:	None	☐ Sediment Deposits
Depth of Soil Pit:	16	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit: 1	None	_
Depth to Saturated Soil:	10	Secondary Indicators (2 or more required):
Remarks:		<ul><li>Oxidized Root Channels in Root Zone</li><li>Water-Stained Leaves</li></ul>
Aerial photos show a series of drains associated with a grass/shrub area.		<ul><li>☐ Local Soil Survey Data</li><li>☐ FAC-Neutral Test</li></ul>
		<ul><li>Other (Explain in Remarks)</li></ul>
		□ None

Depth (in.) How to 6 to 16  Hydric Soil Incomplete Histosol Histic Epiper Sulfidic Octobro Reducing Gleyed Low-Chround Low-Chroen USDA Hydric Sures Mapped Remarks:	ption:	Matrix Colo Munsell Moi  10YR 2/1  10YR 5/2   B  B  C  H  gime  C  S  L  S  Indicator:	Fiebrary Fie	e Color ell Moist) one R 4/8 G Within a Content aking in S al Hydric ional Hyd	Soils List ric Soils List	Textuast S	lype? <b>No</b> ure, Concretions, Structure, Etc.  SiL  SiCL
Depth (in.) Hi  0 to 6 6 to 16  Hydric Soil Inc  Histosol Histic Epip Sulfidic Oc Aquic Moi Reducing Gleyed Low-Chro  USDA Hydric S  RCS Mapped Remarks:	dicators: pedon dor isture Re Conditio oma Color Soils Field	Munsell Moi  10YR 2/1  10YR 5/2    B  B  C  H  gime  C  ns  L  S  Indicator:	er Mottle ist) (Munse 10Y  Bright Mottling Concretions High Organic Organic Streat isted on Location isted on Nat Other (Explain	e Color ell Moist) one R 4/8 G Within a Content aking in S al Hydric ional Hyd	Mottle (Abund./Contra none c2d  Depleted Matri in Surface Layer andy Soils Soils List ric Soils List	Textuast S	ure, Concretions, Structure, Etc. SiL
0 to 6 6 to 16  Hydric Soil Inc Histosol Histic Epip Sulfidic Oc Aquic Moi Reducing Gleyed Low-Chro  USDA Hydric S  RRCS Mapped Remarks:	dicators: pedon dor isture Re Conditio oma Color Soils Field	Munsell Moi  10YR 2/1  10YR 5/2    B  B  C  H  gime  C  ns  L  S  Indicator:	ist) (Munse no 10Y Bright Mottling Concretions High Organic Organic Streat isted on Loc isted on Nat Other (Explain F2 Unknown	ell Moist) one R 4/8  Content aking in S al Hydric ional Hyd	(Abund./Contra none c2d Depleted Matri in Surface Layer andy Soils Soils List ric Soils List	ast S	Structure, Etc. SiL
0 to 6 6 to 16  Hydric Soil Inc Histosol Histic Epip Sulfidic Oc Aquic Moi Reducing Gleyed Low-Chro  USDA Hydric S  NRCS Mapped Remarks:	dicators: pedon dor isture Re Conditio oma Color Soils Field	Munsell Moi  10YR 2/1  10YR 5/2    B  B  C  H  gime  C  ns  L  S  Indicator:	ist) (Munse no 10Y Bright Mottling Concretions High Organic Organic Streat isted on Loc isted on Nat Other (Explain F2 Unknown	ell Moist) one R 4/8  Content aking in S al Hydric ional Hyd	(Abund./Contra none c2d Depleted Matri in Surface Layer andy Soils Soils List ric Soils List	ast S	Structure, Etc. SiL
Hydric Soil Inc  Histosol Histic Epip Sulfidic Oc Aquic Moi Reducing Gleyed Low-Chro  USDA Hydric S NRCS Mapped Remarks:	dicators: pedon dor isture Re Conditio oma Color Soils Field d Type:	10YR 5/2   B  Gime C  S  L  S  Indicator:	Bright Mottling Concretions High Organic Organic Strea Listed on Loc Listed on Nat Other (Explain F2 Unknown	g Within a Content aking in S al Hydric ional Hyd	c2d  Depleted Matri  Surface Layer  andy Soils  Soils List  ric Soils List		
Hydric Soil Ind  Histosol Histic Epip Sulfidic Od Aquic Moi Reducing Gleyed	dicators: pedon dor isture Re Conditio oma Color Soils Field d Type:	gime Cons C	Bright Mottling Concretions High Organic Organic Streat Listed on Loc Listed on Nat Other (Explain F2 Unknown	g Within a Content aking in S al Hydric ional Hyc	n Depleted Matri in Surface Layer andy Soils Soils List ric Soils List		SiCL
Histosol Histic Epip Sulfidic Oc Aquic Moi Reducing Gleyed Low-Chro USDA Hydric S NRCS Mapped Remarks:	pedon dor isture Re Conditio oma Color Soils Field d Type:	gime Cons C	Concretions High Organic Organic Streat Listed on Local Listed on Nat Other (Explain F2 Unknown	Content aking in S al Hydric ional Hyc	in Surface Layer andy Soils Soils List ric Soils List		
☐ Histic Epip ☐ Sulfidic Oc ☐ Aquic Moi ☐ Reducing ☐ Gleyed ☑ Low-Chro USDA Hydric S NRCS Mapped Remarks:	dor isture Re Conditio oma Color Soils Field d Type:	gime	Concretions High Organic Organic Streat Listed on Local Listed on Nat Other (Explain F2 Unknown	Content aking in S al Hydric ional Hyc	in Surface Layer andy Soils Soils List ric Soils List		
			ia uiaiii.				
Site Condition	ns:				) (If no avalain)		Vaa
Do normal circumstances exist in the plant community? (If no, explain)  Yes  Have the veg., soils, and/or hydrology been significantly disturbed? (If yes, explain)  No							
Have the veg., soils, and/or hydrology been significantly disturbed? (If yes, explain)  No  No							
Remarks:		( )	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Wetland Dete Based on the Are Hydrophy Is Wetland H Are Wetland Remarks:	e foregoir ytic Plan lydrology	ng: s Dominant Present?	? Yes Yes Yes	ls Th	nis Sampling Poi Y	int Within A <b>′es</b>	A Wetland?

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/14/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NE Quarter: Plant Community Area: Section: 22 P4 Transect: T1 Township: 8N Sample Site: P4T1S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	<u>Indicator</u>
Poa pratensis	Н	FAC-	Amaranthus retroflexus	Н	FACU+
Setaria glauca	Н	FAC	Phalaris arundinacea	Н	FACW+
Linaria vulgaris	Н	UPL	Apocynum cannabinum	Н	FAC
			Melilotus officinalis	Н	FACU
Percent of Dominant Species tha OBL, FACW or FAC (excluding FACW)		33.3%			
obel in the constanting in	,.	00.070			
Remarks:					
Along road berm.					

HYDROLOGY		
Recorded Data (Describe i  Stream, Lake or Tide Ga  Aerial Photo Other	,	Wetland Hydrology Indicators:  Primary Indicators:  Inundated Saturated in Root Zone
Field Observations:  Depth of Surface Water: Depth of Soil Pit: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	None 10 None None	<ul> <li>Water Marks</li> <li>Drift Lines</li> <li>Sediment Deposits</li> <li>Drainage Patterns in Wetlands</li> <li>Floodway</li> <li>Secondary Indicators (2 or more required):</li> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name:	SABLE SILTY	CLAY	Drainage Class	: Poorly
Taxonomy (Subgroup):	Typic Haplaque	olls	-	
,	•	Field Observ	vations Confirm Map	ped Type? <b>No</b>
Profile Description:				1 - 71 - 110
Profile Description:	Matrix Color	Mottle Color	Mottle	Texture, Concretions,
-	Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 3 A	10YR 2/2	none	none	SiL
3 to 10 B	10YR 4/4	none	none	SiCL/gravel
Hydric Soil Indicators:				
_				
<ul><li>☐ Histosol</li><li>☐ Histic Epipedon</li></ul>		Mottling Within a	Depleted Matrix	
Sulfidic Odor		etions Organic Content i	n Surface Laver	
Aquic Moisture Reg	gime 🗌 Orgar	nic Streaking in S		
☐ Reducing Condition	ns 🗌 Listed	on Local Hydric	Soils List	
<ul><li>☐ Gleyed</li><li>☐ Low-Chroma Colors</li></ul>	- —	on National Hyd		
Low-Cilionia Colors	□ Other	(Explain in Rema	arks)	
HODA Hadda Oalla Filati	Indiactor No.			
USDA Hydric Soils Field				
NRCS Mapped Type:	Unk	nonwn		
Remarks:	undala a Peres de la la			
Fill for road - no indicators of h	yarıc soils noted.			
OITE OONDITIONS	\\/FT  ^\\\	TEDMIN'S TICK		
SITE CONDITIONS AND	WEILAND DE	IERMINATION		
Site Conditions:				
Do normal circumstand	·	•	, ,	Yes
Have the veg., soils, a			y disturbed? (If yes,	• /
Is the site a problem a	rea? (If yes, exp	olain)		No
Remarks:				
Wetland Determination	n:			
Based on the foregoing				
Are Hydrophytic Plants	•	No		
Is Wetland Hydrology		No Is Th	is Sampling Point W	ithin A Wetland?
Are Wetland Soils Pre		No	No	
	SCIII:	140		
Remarks:				

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI Quarter: NE Plant Community Area: Section: 22 P5 Transect: T1 Township: 8N Sample Site: P5T1S1 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	<b>Stratum</b>	<u>Indicator</u>
Phalaris arundinacea	Н	FACW+	Cornus sericea	S	FACW
Impatiens capensis	Н	FACW	Aster lateriflorus	Н	FACW-
Sicyos angulatus	Н	FACW-	Salix interior	S	OBL
Typha angustifolia	Н	OBL	Ribes americanum	S	FACW
Salix amygdaloides	Т	FACW	Polygonum amphibium	Н	OBL
Percent of Dominant Species that OBL, FACW or FAC (excluding FACW)		100.0%			
Remarks:					

HYDROLOGY	
☐ Recorded Data (Describe in Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gauge	Primary Indicators:
✓ Aerial Photo	☐ Inundated
☐ Other	✓ Saturated in Root Zone  ✓ Water Marks
Field Observations:	☐ Drift Lines ☐ None
Depth of Surface Water: None	Sediment Deposits
Depth of Soil Pit: 16	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit: 14	_ •
Depth to Saturated Soil: 11	Secondary Indicators (2 or more required):
Remarks:	<ul><li>Oxidized Root Channels in Root Zone</li><li>Water-Stained Leaves</li></ul>
Aerial photo shows flat shrubby area along drain, between field and road.	n farm ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks) ☐ None

Taxonomy (Subgroup):	PALMS MUCK	<	Drainage Class	: Poorly
raxonomy (Gabgroup):	Terric Medisar	orists		
		Field Observ	vations Confirm Map	ped Type? <b>No</b>
<b>Profile Description:</b>				
Depth (in.) Horizon (	Matrix Color Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	<u>Texture, Concretions,</u> <u>Structure, Etc.</u>
0 to 6 A1	10YR 3/2	10YR 4/6	c1d	SiCL
6 to 7 A2	10YR 2/1	none	none	semi-decomp. organic
7 to 16 B	10YR 3/2	10YR 4/6	c2d	SiCL
0 to 0				
Hydric Soil Indicators	•			
	gime	retions Organic Content in Content in Streaking in Streaking in Streaking in Streaking in Streaking in Local Hydric don National Hydro (Explain in Remark)  Known  y 6-8 inches. Appears	andy Soils Soils List ric Soils List arks)	erm over native soil.
SITE CONDITIONS AN	D WETLAND DI	ETERMINATION		
Do normal circumstar	nces exist in the	plant community?	(If no, explain)	Yes
Do normal circumstar Have the veg., soils,			, ,	
	and/or hydrology	been significantl	, ,	
Have the veg., soils,	and/or hydrology	been significantl	, ,	explain) <b>No</b>

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI Quarter: NE Plant Community Area: Section: 22 P5 Transect: T1 Township: 8N Sample Site: P5T1S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Poa palustris	Н	FACW+	Chenopodium album	Н	FAC-
Daucus carota	Н	NI	Taraxacum officinale	Н	FACU
Cichorium intybus	Н	UPL	Trifolium hybridum	Н	FAC-
Salix amygdaloides	Т	FACW	Seteria faberi	Н	FACU+
			Asclepias syriaca	Н	NI
			Lonicera X bella	S	FACU-
Percent of Dominant Species that	are		Solidago canadensis	Н	FACU
OBL, FACW or FAC (excluding FA		50.0%			
Remarks:					
Sample point along lower edge of ro	ad berm.				

HYDROLOGY		
☐ Stream, Lake or Tide Ga ☐ Aerial Photo ☐ Other  Field Observations: Depth of Surface Water: Depth of Soil Pit:	☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake or Tide Gauge ☐ Aerial Photo ☐ Other  Field Observations: Depth of Surface Water: None	Wetland Hydrology Indicators:  Primary Indicators:  ☐ Inundated ☐ Saturated in Root Zone ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands ☐ Floodway
Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	None None	Secondary Indicators (2 or more required):  Oxidized Root Channels in Root Zone Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks) None

	PALMS MUCK	(	Drainage Class	s: Poorly
Taxonomy (Subgroup):	Terric Medisap	orists		
		Field Obser	vations Confirm Map	oped Type? No
Profile Description:				
· <u> </u>	Matrix Color	Mottle Color	<u>Mottle</u>	Texture, Concretion
<u>Depth (in.) Horizon (N</u>	Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 3 A	10YR 3/2	none	none	L
3 to 8 B1	10YR 4/3	none	none	SiCL/small gravel
8 to 14 B2	10YR 4/3	none	none	SiCL/large gravel
Hydric Soil Indicators:				
☐ Sulfidic Odor ☐ Aquic Moisture Reg ☐ Reducing Condition ☐ Gleyed ☐ Low-Chroma Colors  JSDA Hydric Soils Field NRCS Mapped Type:	gime	nic Streaking in S d on Local Hydric d on National Hyd (Explain in Rem	Soils List dric Soils List	
	indicators of hydric	soil observed.		
Road fill through wetland - no i				
Road fill through wetland - no i	WETLAND DE	ETERMINATION		Yes
Road fill through wetland - no i	O WETLAND DE	ETERMINATION plant community	? (If no, explain)	
Road fill through wetland - no i	O WETLAND DE ces exist in the nd/or hydrology	ETERMINATION  plant community been significant	? (If no, explain)	
Have the veg., soils, a	O WETLAND DE ces exist in the nd/or hydrology	ETERMINATION  plant community been significant	? (If no, explain)	explain) No

(1987 COE Wetlands Determination Manual)

Project Name:	ATC North Madison to Huiskamp	Date:	09/15/2005
Project Number:	2005-0194	County:	Dane
Observers:	RGD	State:	WI
		Quarter:	NE
Plant Community Area:	A1	Section:	21
Transect:	T1	Township:	9N
Sample Site:	A1T1S1	Range:	9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Solanum dulcamara	Н	FAC
Typha angustifolia	Н	OBL			
Polygonum amphibium	Н	OBL			
Percent of Dominant Species tha OBL, FACW or FAC (excluding FACW)		100.0%			
Remarks:					
Sample point in depression betwee	n farm field an	d road berm.			

HYDROLOGY		
☐ Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gau	ıge	Primary Indicators:
Aerial Photo		☐ Inundated
✓ Other		☐ Saturated in Root Zone ☐ Water Marks ☐ None
Field Observations:		☐ Drift Lines ☐ None
Depth of Surface Water:	None	☐ Sediment Deposits
Depth of Soil Pit:	16	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit:	None	_ ,
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):
Remarks: Aerial photo and USGS map show a dewater.	epression with standing	<ul> <li>✓ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>□ None</li> </ul>

•	ABLE SILTY CLA	<b>\</b> Υ	Drainage Class	: Poorly	
Taxonomy (Subgroup): Ty	pic Haplaquolls				
		Field Obser	vations Confirm Map	pped Type?	No
Profile Description:	tuis Calan NA	-44- O-1	Massia	Tautuma Cana	
		ottle Color unsell Moist)	Mottle (Abund./Contrast	Texture, Conc Structure,	
	10YR 3/1	10YR 4/4	f1f	SiL	
6 to 16 B	10YR 3/2	10YR 4/6	c1d	SiCL	
Hydric Soil Indicators:					
<ul> <li>☐ Histosol</li> <li>☐ Histic Epipedon</li> <li>☐ Sulfidic Odor</li> <li>☐ Aquic Moisture Regim</li> <li>☐ Reducing Conditions</li> <li>☐ Gleyed</li> <li>☑ Low-Chroma Colors</li> </ul> USDA Hydric Soils Field In NRCS Mapped Type:	Concretion High Organic S Organic S Listed on Listed on Other (Ex	ons anic Content Streaking in S Local Hydric National Hyd cplain in Rema	Soils List Iric Soils List		
	petween 6 and 10 inc	hes in depth.			
Oxidized rhizospheres observed b	/ETLAND DETE	RMINATION	? (If no, explain)	Y	es
Oxidized rhizospheres observed be SITE CONDITIONS AND Washingtons:	/ETLAND DETE	RMINATION at community?			es lo
Oxidized rhizospheres observed by  SITE CONDITIONS AND W  Site Conditions:  Do normal circumstances	/ETLAND DETE s exist in the plan /or hydrology bee	RMINATION  at community?  en significantl		explain) N	
Do normal circumstances Have the veg., soils, and	/ETLAND DETE s exist in the plan /or hydrology bee	RMINATION  at community?  en significantl		explain) N	lo
SITE CONDITIONS AND W Site Conditions:  Do normal circumstances Have the veg., soils, and Is the site a problem area	Sexist in the pland for hydrology bear (If yes, explain for an arrow of the pland) or hydrology bear (If yes, explain for arrow of the pland) or hydrology bea	RMINATION  at community?  en significantl  n)		explain) N	lo lo
SITE CONDITIONS AND W Site Conditions:  Do normal circumstances Have the veg., soils, and Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre	Sexist in the pland for hydrology bear (If yes, explain for an arrow of the pland) or hydrology bear (If yes, explain for arrow of the pland) or hydrology bea	RMINATION  at community and significantly and significantly and a significant and a signif	y disturbed? (If yes,	explain) N	lo lo
SITE CONDITIONS AND WESTE COND	Sexist in the pland for hydrology bear (If yes, explain for an arrow of the pland) or hydrology bear (If yes, explain for arrow of the pland) or hydrology bea	RMINATION  at community and significantly and significantly and a significant and a signif	y disturbed? (If yes,	explain) N	lo lo
SITE CONDITIONS AND WESTE COND	Sexist in the pland for hydrology bear (If yes, explain for an arrow of the pland) or hydrology bear (If yes, explain for arrow of the pland) or hydrology bea	RMINATION  at community and significantly and significantly and a significant and a signif	y disturbed? (If yes,	explain) N	lo lo
SITE CONDITIONS AND WESTE COND	Sexist in the pland for hydrology bear (If yes, explain for an arrow of the pland) or hydrology bear (If yes, explain for arrow of the pland) or hydrology bea	RMINATION  at community and significantly and significantly and a significant and a signif	y disturbed? (If yes,	explain) N	lo lo

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NE Quarter: Plant Community Area: Section: 21 Α1 Transect: T1 Township: 9N Sample Site: A1T1S2 Range: 9E

<b>Dominant Plant Species</b>	<b>Stratum</b>	<b>Indicator</b>	<b>Secondary Plant Species</b>	<b>Stratum</b>	<u>Indicator</u>
Poa pratensis	Н	FAC-	Phalaris arundinacea	Н	FACW+
Cichorium intybus	Н	UPL			
Polygonum amphibium	Н	OBL			
Taraxacum officinale	Н	FACU			
Plantago major	Н	FAC+			
Trifolium repens	Н	FACU+			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		33.3%			
	. famos fiald am	-ll		1 finlal than an	
point 1.	n farm field an	d road berm, cl	oser to intersection beteen berm and	i field than sa	mple

HYDROLOGY		
☐ Recorded Data (Describe i	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone ☐ Water Marks ✓ None
Field Observations:		☐ Drift Lines
Depth of Surface Water:	None 12	☐ Sediment Deposits
Depth of Soil Pit:		<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit:	None	
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):
Remarks:		<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name: SABLE SILTY CLAY Drainage Class: Poorly Taxonomy (Subgroup): Typic Haplaquolls							
Field Observations Confirm Mapped Type? No							
Profile Descriptio	n·		·	. ,,			
i rome bescriptio	Matrix Color	Mottle Color	Mottle	Texture, Concretions,			
Depth (in.) Horizo	,	(Munsell Moist)	(Abund./Contrast	Structure, Etc.			
0 to 4 A	10YR 3/2	none	none	SiCL			
4 to 12 B	10YR 4/3	none	none	SiCL/gravel			
Hydric Soil Indica	tors:						
-							
<ul><li>☐ Histosol</li><li>☐ Histic Epipedo</li></ul>		t Mottling Within a	Depleted Matrix				
Sulfidic Odor	_ 00110	retions	. Ofa I				
☐ Aquic Moistur	- <b>-</b>	Organic Content in Content in S	-				
☐ Reducing Cor		d on Local Hydric					
☐ Gleyed		d on National Hyd					
☐ Low-Chroma	<u> </u>	r (Explain in Rema					
USDA Hvdric Soils	Field Indicator: Nor	ne					
NRCS Mapped Typ		known					
Remarks:	JO. 0111	(IIOWII					
	acil abaamtad						
No indicators of hydric s	soli observed.						
SITE CONDITIONS	S AND WETLAND D	ETERMINATION					
Site Conditions:							
Do normal circun	nstances exist in the	plant community?	? (If no, explain)	Yes			
Have the veg., so	oils, and/or hydrology	been significantl	y disturbed? (If yes,	explain) No			
Is the site a prob	lem area? (If yes, ex	plain)		No			
•	( ) = = , =	,					
Remarks:							
Wetland Determine	nation:						
Based on the for	eaoina:						
	Plants Dominant?	No					
Is Wetland Hydro		No Is Th	nis Sampling Point W	/ithin A Wetland?			
•	0,		No				
Are Wetland Soil	s Present?	No	140				
Remarks:							

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 33 A2 Transect: T1 Township: 9N Sample Site: A2T1S1 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	<u>Indicator</u>
Phalaris arundinacea	Н	FACW+	Sonchus arvensis	Н	FAC-
Polygonum amphibium	Н	OBL	Linaria vulgaris	Н	UPL
Acer negundo	Т	FACW-			
Percent of Dominant Species that	t are				
OBL, FACW or FAC (excluding FA		100.0%			
Remarks:					
Swale along road filled with rocks.					

HYDROLOGY	
☐ Recorded Data (Describe in Remarks)	: Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gauge	Primary Indicators:
✓ Aerial Photo	☐ Inundated
☐ Other	<ul><li>Saturated in Root Zone</li></ul>
Field Observations:  Depth of Surface Water: None Depth of Soil Pit: None Depth to Free Water in Pit: N/A Depth to Saturated Soil: N/A  Remarks: Aerial photo shows dark signature surrounding veget pocket in low area long road. Water marks and sedir rocks indicated periodic ponding of 2-3 inches.	

Remarks:

See notes under soils for explanation of soils parameter.

Map Unit Name: TROXEL SILT LOAM Drainage Class: Moderately Well					
Taxonomy (Subgroup): Typic Argiudoll	S				
	Field Obser	vations Confirm Map	ped Type? <b>No</b>		
Profile Description:					
<u>Matrix Color</u> <u>Depth (in.) Horizon (Munsell Moist)</u>	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	Texture, Concretions, Structure, Etc.		
0 to 0			Rocks		
			-		
Hydric Soil Indicators:					
	-	a Depleted Matrix			
☐ Sulfidic Odor ☐ High (	etions Organic Content	in Surface Layer			
Aquic Moisture Regime  Organ	nic Streaking in S				
☐ Reducing Conditions ☐ Listed	l on Local Hydric	Soils List			
	l on National Hyd (Explain in Rem				
□ Other	(Explain in Rem	aino)			
LISDA Hydric Soile Field Indicator: N/A					
USDA Hydric Soils Field Indicator: N/A					
NRCS Mapped Type: Unk Remarks:	nown				
Remarks:  Could not dig soil pit due to rock piles. Hydric soil:	s assumed based on	vegetation and hydrology	indicators		
patterns on a series of aerial photos, and historic t					
CITE CONDITIONS AND WET	TEDRALLATION				
SITE CONDITIONS AND WETLAND DE	LIEKWINATION				
Site Conditions:					
Do normal circumstances exist in the			Yes		
Have the veg., soils, and/or hydrology	_	ly disturbed? (If yes,			
Is the site a problem area? (If yes, exp	olain)		Yes		
Remarks:					
Rock pile made evaluation of soils within study	corridor impossible.				
,	·				
Wetland Determination:					
Based on the foregoing:					
Are Hydrophytic Plants Dominant?	Yes				
• • •	Yes Is Th	nis Sampling Point W	ithin A Wetland?		
Is Wetland Hydrology Present?  Are Wetland Soils Present?	res N/A	Yes			
THE PREMIANA CONSTITUTES CITES	17/7				

(1987 COE Wetlands Determination Manual)

Project Name:	ATC North Madison to Huiskamp	Date:	09/15/2005
Project Number:	2005-0194	County:	Dane
Observers:	RGD	State:	WI
		Quarter:	SW
Plant Community Area:	A2	Section:	33
Transect:	T1	Township:	9N
Sample Site:	A2T1S2	Range:	9E

### **VEGETATION**

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Bromus inermis	Н	NI	Sonchus arvensis	Н	FAC-
Cichorium intybus	Н	UPL			
Trifolium pratense	Н	FACU+			
Taraxacum officinale	Н	FACU			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		0.0%			
Remarks:					
Sample point on road berm.					

### **HYDROLOGY**

☐ Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone
Field Observations:  Depth of Surface Water:  Depth of Soil Pit:  Depth to Free Water in Pit:	None 12 None	<ul> <li>Water Marks</li> <li>□ Drift Lines</li> <li>□ Sediment Deposits</li> <li>□ Drainage Patterns in Wetlands</li> <li>□ Floodway</li> <li>Secondary Indicators (2 or more required):</li> </ul>
Depth to Saturated Soil: Remarks:	None	<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

<del></del>						
Map Unit Name: TROXEL SILT LOAM Drainage Class: Moderately Well						
Taxonomy (Subgroup):	Typic Argiudolls					
		Field Observ	ations Confirm Map	ped Type? <b>No</b>		
Profile Description:						
<u>.</u>	Matrix Color	Mottle Color	Mottle (A)	Texture, Concretions,		
Depth (in.) Horizon (M		Munsell Moist)	(Abund./Contrast	Structure, Etc.		
0 to 4 A	10YR 3/2	none	none	SiL		
4 to 12 B	10YR 4/3	none	none	SiCL/gravel		
Hydric Soil Indicators:						
☐ Histosol			Depleted Matrix			
<ul><li>☐ Histic Epipedon</li><li>☐ Sulfidic Odor</li></ul>	☐ Concre		n Curtosa Laver			
☐ Aquic Moisture Regi		rganic Content i c Streaking in S	n Surface Layer andy Soils			
Reducing Conditions		on Local Hydric				
☐ Gleyed	Listed of	on National Hyd	ric Soils List			
☐ Low-Chroma Colors	□ Other (	Explain in Rema	arks)			
HODA Hodda October 1997	Indiantes No					
USDA Hydric Soils Field						
NRCS Mapped Type:	Unkn	own				
Remarks:						
Road fill with topsoil dressing.						
SITE CONDITIONS AND	WETLAND DET	ERMINATION				
Site Conditions:						
Do normal circumstance	es exist in the n	ant community?	' (If no. explain)	Yes		
Have the veg., soils, ar	•	•	` ' '			
Is the site a problem ar		•	,	No		
	( ) , - xp.	<b>'</b>				
Remarks:						
Wetland Determination						
Based on the foregoing		NI.				
Are Hydrophytic Plants		No No Is Th	is Sampling Point W	ithin A Wetland?		
Is Wetland Hydrology F		NO	No			
Are Wetland Soils Pres	sent?	No	140			
Remarks:						

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 4 А3 Transect: T1 Township: 8N Sample Site: A3T1S1 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Typha angustifolia	Н	OBL
Polygonum amphibium	Н	OBL	Vitis riparia	V	FACW-
Sonchus arvensis	Н	FAC-	Solanum dulcamara	Н	FAC
			Urtica dioica	Н	FAC+
Percent of Dominant Species tha OBL, FACW or FAC (excluding FAC)		66.7%			
OBL, FACW or FAC (excluding FA	AC-):	00.7%			
Remarks:					
Area is a dpression at the end of tw	o drains runni	ng off of agricu	ltural areas, ending in a box culvert u	nder the road	l <b>.</b>

HYDROLOGY						
Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:				
☐ Stream, Lake or Tide Gai	uge	Primary Indicators:				
Aerial Photo		☐ Inundated				
☐ Other		<ul><li>☐ Saturated in Root Zone</li><li>☐ Water Marks</li><li>☐ None</li></ul>				
Field Observations:		☐ Drift Lines ☐ None				
Depth of Surface Water:	None	☐ Sediment Deposits				
Depth of Soil Pit:	16	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>				
Depth to Free Water in Pit:	None	_ ,				
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):				
Remarks:  Aerial photo shows two drains running Approximately two inches of standing bottom of the box culvert (which is the	water observed in the	<ul> <li>✓ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>□ None</li> </ul>				

Map Unit Name: HUNTSVILLE SILT L Drainage Class: Well Taxonomy (Subgroup): Cumulic Hapludolls								
	Field Observations Confirm Mapped Type? No							
Profile Descri		Matrice Oct	Maula O I	NA - 111 -	Tantona October (			
Depth (in.)	_	<u>Matrix Color</u> <u>Munsell Moist)</u>	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	Texture, Concretions, Structure, Etc.			
0 to 6	Α	10YR 2/2	none	none	SiL			
6 to 16	В	10YR 3/2	10YR 4/4	c2f	SiCL			
Hydric Soil In  Histosol Histic Epi Sulfidic Co Aquic Mo Reducing Gleyed Low-Chro USDA Hydric S NRCS Mapper Remarks: Oxidized rhizosph	O to 6 A 10YR 2/2 none none SiL 6 to 16 B 10YR 3/2 10YR 4/4 c2f SiCL  Hydric Soil Indicators:  Histosol							
			•	y disturbed? (If yes,	Yes explain) No			
	_	rea? (If yes, exp		,	NO			
Remarks:								
Wetland Dete Based on th Are Hydroph Is Wetland H Are Wetland Remarks:	e foregoing nytic Plants Hydrology	g: s Dominant? Present?	Yes Is Th Yes Yes	is Sampling Point W <b>Yes</b>	/ithin A Wetland?			

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 4 А3 Transect: T1 Township: 8N Sample Site: A3T1S2 Range: 9E

<b>Dominant Plant Species</b>	<b>Stratum</b>	<u>Indicator</u>	<b>Secondary Plant Species</b>	<b>Stratum</b>	<u>Indicator</u>
Bromus inermis	Н	NI	Seteria faberi	Н	FACU+
Cichorium intybus	Н	UPL	Echinochloa crusgalli	Н	FACW
Taraxacum officinale	Н	FACU	Plantago major	Н	FAC+
Chenopodium album	Н	FAC-	Daucus carota	Н	NI
			Arctium minus	Н	NI
Percent of Dominant Species that					
OBL, FACW or FAC (excluding FA	AC-):	0.0%			
_					
Remarks:					
Grassy swale between road berm a	nd farm field.				

HYDROLOGY		
<ul><li>☐ Recorded Data (Describe i</li><li>☐ Stream, Lake or Tide Ga</li></ul>		Wetland Hydrology Indicators: Primary Indicators:
☐ Aerial Photo ☐ Other  Field Observations: Depth of Surface Water: Depth of Soil Pit: Depth to Free Water in Pit:	None 13 None	☐ Inundated ☐ Saturated in Root Zone ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands ☐ Floodway  Secondary Indicators (2 or more required):
Depth to Saturated Soil:  Remarks:  Swale running down to culvert along relationships to the state of the sta	None padside.	<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name: HUNTSVILLE SILT L Drainage Class: Well Taxonomy (Subgroup): Cumulic Hapludolls							
Field Observations Confirm Mapped Type? No							
Profile Description:							
-	Matrix Color Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	Texture, Concretions, Structure, Etc.			
0 to 6 A	10YR 3/2	none	none	SiL			
6 to 13 B	10YR 4/4	none	none	SiCL/gravel			
Hydric Soil Indicators:							
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Reg Reducing Condition Gleyed Low-Chroma Color  USDA Hydric Soils Field NRCS Mapped Type: Remarks: Fill from road grade construction	Conciliance  Gime Corgan  Organ  Sins Listed  Listed  Sins Other  Handicator: Nor  Unk	Mottling Within a retions Organic Content i nic Streaking in Sa d on Local Hydric d on National Hyd (Explain in Rema	n Surface Layer andy Soils Soils List ric Soils List				
SITE CONDITIONS AND	WETLAND DE	ETERMINATION					
Site Conditions:  Do normal circumstan	cae aviet in the	plant community?	(If no explain)	Yes			
Have the veg., soils, a			` ' '				
Is the site a problem a		•	,,	No No			
Remarks:							
Wetland Determination Based on the foregoin Are Hydrophytic Plant Is Wetland Hydrology Are Wetland Soils Pre Remarks:	ig: s Dominant? Present?	No Is Th No No	is Sampling Point W <b>No</b>	ithin A Wetland?			

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 9 A4 Transect: T1 Township: 8N Sample Site: A4T1S1 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Lycopus americanus	Н	OBL
Carex scoparia	Н	FACW	Aster lateriflorus	Н	FACW-
Solidago gigantea	Н	FACW	Scirpus atrovirens	Н	OBL
			Cornus sericea	S	FACW
			Ribes americanum	S	FACW
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		100.0%			
Remarks: Sloping area near excavated pond i	n floodplain o	f Six Mile Creek	<u> </u>		

HYDROLOGY		
☐ Recorded Data (Describe in	Remarks):	Wetland Hydrology Indicators:
✓ Stream, Lake or Tide Gaug	je	Primary Indicators:
Aerial Photo		☐ Inundated
☐ Other		<ul><li>☐ Saturated in Root Zone</li><li>☐ Water Marks</li><li>☐ None</li></ul>
Field Observations:		☐ Drift Lines None
Depth of Surface Water: N	lone	☐ Sediment Deposits
Depth of Soil Pit: 1	8	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit: N	lone	
Depth to Saturated Soil: N	lone	Secondary Indicators (2 or more required):
Remarks: Shows as flat floodplain area on aerial pl topographic map.	hoto and USGS	<ul> <li>✓ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>□ None</li> </ul>

Map Unit Name: ORION SILT LOAM, Drainage Class: Poorly Taxonomy (Subgroup): Aquic Udifluvents						
axonomy (	Oubgroup	j. Aquio Guinave		vations Confirm Mag	pped Type? <b>No</b>	
Profile Des	cription:			.,	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	-	Matrix Color	Mottle Color	<u>Mottle</u>	Texture, Concretions,	
Depth (in.)	<u>Horizon</u>	(Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.	
0 to 6	Α	10YR 3/1	none	none	SiL	
6 to 18	В	10YR 5/2 (80%)	10YR 6/6	c2d	SiCL	
6 to 18		10YR 2/1 (20%)	none	none	ec. organic	
Sulfidio Aquic N Reduci Gleyed Low-Cl JSDA Hydri NRCS Mapp Remarks:	Epipedon Odor Moisture R ng Condit nroma Col C Soils Fie	Conc High Regime Orga ions Lister Lister Ors Othe  eld Indicator: F2 Unl	t Mottling Within a cretions Organic Content in nic Streaking in S d on Local Hydric d on National Hyd r (Explain in Reman	in Surface Layer andy Soils Soils List ric Soils List	support if	
excavated, unc	lear if roots		,			
D			plant community?	) (If	Yes	

Site Conditions:			
Do normal circumstances exist in the	plant con	nmunity? (If no, explain)	Yes
Have the veg., soils, and/or hydrolog	y been sig	nificantly disturbed? (If yes, explain)	Yes
Is the site a problem area? (If yes, ex	plain)		Yes
Remarks:			
Area distrurbed by adjacent excavation and lar spoil. Hydrology may also have been altered	, ,	Area around sample point may have been covered	d with
Wetland Determination:			
Based on the foregoing:			
Are Hydrophytic Plants Dominant?	Yes	L This Could be Discovered and a	
Is Wetland Hydrology Present?	Yes	Is This Sampling Point Within A Wet	tland?
Are Wetland Soils Present?	Yes	Yes	
Remarks:			

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 9 A4 Transect: T1 Township: 8N Sample Site: A4T1S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Sonchus arvensis	Н	FAC-
Daucus carota	Н	NI	Pastinaca sativa	Н	NI
Trifolium pratense	Н	FACU+	Verbascum thapsus	Н	UPL
Solidago canadensis	Н	FACU	Asclepias syriaca	Н	NI
Poa pratensis	Н	FAC-			
Percent of Dominant Species that OBL, FACW or FAC (excluding F.		20.0%			
Remarks: Uplsope from A4T1S1, toward fallo	w field.				

HYDROLOGY		
<ul><li>☐ Recorded Data (Describe in Remarks):</li><li>☐ Stream, Lake or Tide Gauge</li></ul>		Wetland Hydrology Indicators:  Primary Indicators:
☐ Aerial Photo ☐ Other  Field Observations: Depth of Surface Water: Depth of Soil Pit: Depth to Free Water in Pit: Depth to Saturated Soil:	None 18 None None	☐ Inundated ☐ Saturated in Root Zone ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands ☐ Floodway  Secondary Indicators (2 or more required): ☑ Oxidized Root Channels in Root Zone
Remarks: Oxidized rhizospheres 6-8 inches, similar to S1.		<ul> <li> Water-Stained Leaves</li> <li> Local Soil Survey Data</li> <li> FAC-Neutral Test</li> <li> Other (Explain in Remarks)</li> <li> None</li> </ul>

Are Wetland Soils Present?

Remarks:

Map Unit Name: ORION SILT LOAM, Drainage Class: Poorly Taxonomy (Subgroup): Aquic Udifluvents										
	Field Observations Confirm Mapped Type? No									
Profile Des	Profile Description:									
Depth (in.)	<u>Horizon</u>	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	<u>Structure, Etc.</u>					
0 to 6	Α	10YR 3/2	0YR 3/2 none none		SiL					
6 to 18	В	10YR 5/2	10YR 4/6	c2d	SiCL					
☐ Sulfidio	ol Epipedon COdor	☐ Brigh ☐ Conc ☐ High	t Mottling Within a cretions Organic Content	in Surface Layer						
☐ Reduci	<ul> <li>☐ Aquic Moisture Regime</li> <li>☐ Reducing Conditions</li> <li>☐ Listed on Local Hydric Soils List</li> <li>☐ Gleyed</li> <li>☐ Listed on National Hydric Soils List</li> <li>☐ Low-Chroma Colors</li> <li>☐ Other (Explain in Remarks)</li> </ul>									
USDA Hydr	ic Soils Fi	eld Indicator: F2								
NRCS Map	oed Type:	Unl	known							
Remarks:										
May be excava	ited material	from pond. However,	no organic mixing as	in S1?						
SITE CONDITIONS AND WETLAND DETERMINATION										
Site Condi	tions:									
Do norma	I circumst	ances exist in the	plant community?	? (If no, explain)	Yes					
Have the	veg., soils	, and/or hydrology	y been significantl	y disturbed? (If yes, e	explain) Yes					
Is the site	a problem	n area? (If yes, ex	plain)		Yes					
Remarks:										
Remarks:  Area distrurbed by adjacent excavation and landscaping. Area around sample point may have been covered with spoil. Hydrology may also have been altered by pond.										
Wetland D	eterminat	ion:								
Based on		-								
	Ü	· ·	No							
Are Hydrophytic Plants Dominant?  Is Wetland Hydrology Present?  No  Is This Sampling Point Within A Wetland?										

Yes

No

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 9 A4 Transect: T2 Township: 8N Sample Site: A4T2S1 Range: 9E

<b>Dominant Plant Species</b>	<b>Stratum</b>	<u>Indicator</u>	<b>Secondary Plant Species</b>	<u>Stratum</u>	<u>Indicator</u>
Urtica dioica	Н	FAC+	Helianthus grosseserratus	Н	FACW-
Phaseolus lunatus	Н	NI	Nepeta cataria	Н	FAC-
Sicyos angulatus	Н	FACW-	Alliaria petiolata	Н	FAC
			Vitis riparia	V	FACW-
			Angelica atropurpurea	Н	OBL
Percent of Dominant Species tha OBL, FACW or FAC (excluding FA		66.7%			
Remarks:					
Flat area between rairlroad grade a	nd greek.				

HYDROLOGY		
☐ Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gau	ıge	Primary Indicators:
Aerial Photo		☐ Inundated
✓ Other		☐ Saturated in Root Zone ☐ Water Marks ✓ None
Field Observations:		☐ Drift Lines
Depth of Surface Water:	None	☐ Sediment Deposits
Depth of Soil Pit:	16	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit:	None	_ •
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):
Remarks: Shows as flat floodplain area on aerial topographic map.	photo and USGS	<ul> <li>✓ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>□ None</li> </ul>

Map Unit Name: Taxonomy (Subgroup):	ORION SILT L Aquic Udifluve	•	Drainage Class	: Poorly
) (- · · · · · · · · · · · · · · · · · ·	,		vations Confirm Map	ped Type? <b>No</b>
Duefile Description		i ieid Obselv	radono Commini wap	pod rypo: 140
Profile Description:	Matrix Color	Mottle Color	Mottle	Texture, Concretions,
	Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 8	10YR 3/1	none	none	SiL
0 to 16	10YR 4/2	10YR 4/6	c2d	SiCL
Hydric Soil Indicators:				
☐ Histosol	V Drive	: Mottling Within a	Donloted Metrix	
Histic Epipedon		retions	Depleted Matrix	
☐ Sulfidic Odor	☐ High	Organic Content i	n Surface Layer	
☐ Aquic Moisture Reg		nic Streaking in S		
<ul><li>☐ Reducing Condition</li><li>☐ Gleyed</li></ul>		d on Local Hydric		
✓ Low-Chroma Color	_	d on National Hyd (Explain in Rema		
	_ 001	(	······································	
USDA Hydric Soils Field	Indicator: F2			
NRCS Mapped Type:		nown		
Remarks:	Olli			
Nomano.				
SITE CONDITIONS AND	WETLAND DI	TERMINATION		
Site Conditions:				
Do normal circumstan	ces exist in the	plant community?	(If no. explain)	Yes
Have the veg., soils, a		•	, , ,	
Is the site a problem a		=	,	No
•		,		110
Remarks:				
Wetland Determinatio				
Based on the foregoin	ŭ			
	a Daminant?	Yes		
Are Hydrophytic Plant	S Dominant?	ᅝ	ic Complina Daint M	lithin A Motland?
Are Hydrophytic Plants Is Wetland Hydrology		Yes Is Th	is Sampling Point W	ithin A Wetland?
	Present?	Yes Is Th	iis Sampling Point W <b>Yes</b>	ithin A Wetland?
Is Wetland Hydrology	Present?	res		ithin A Wetland?
Is Wetland Hydrology Are Wetland Soils Pre	Present?	res		ithin A Wetland?
Is Wetland Hydrology Are Wetland Soils Pre	Present?	res		ithin A Wetland?
Is Wetland Hydrology Are Wetland Soils Pre	Present?	res		ithin A Wetland?
Is Wetland Hydrology Are Wetland Soils Pre	Present?	res		ithin A Wetland?

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: 9 A4 Transect: T2 Township: 8N Sample Site: A4T2S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Arctium minus	Н	NI	Verbascum thapsus	Н	UPL
Nepeta cataria	Н	FAC-	Alliaria petiolata	Н	FAC
Trifolium pratense	Н	FACU+	Urtica dioica	Н	FAC+
Chenopodium album	Н	FAC-			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		0.0%			
Remarks:					
Sloping area at base of railroad grad	de.				

in Remarks):	Wetland Hydrology Indicators:
iuge	Primary Indicators:
	☐ Inundated
	☐ Saturated in Root Zone
None 13 None None	<ul> <li>Water Marks</li> <li>Drift Lines</li> <li>Sediment Deposits</li> <li>Drainage Patterns in Wetlands</li> <li>Floodway</li> <li>Secondary Indicators (2 or more required):</li> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>
	13 None

Map Unit Name:	ORION SILT L	OAM,	Drainage Class	Poorly
Taxonomy (Subgroup):	Aquic Udifluve	nts		
		Field Obser	vations Confirm Map	ped Type? <b>No</b>
Profile Description:			·	
•	Matrix Color	Mottle Color	<u>Mottle</u>	Texture, Concretions,
Depth (in.) Horizon (	<u>Munsell Moist)</u>	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 12 A	10YR 3/1	none	none	SiL
12 to 13 B	N/A	none	none	coarse rock/gravel
0 to 0				
Hydric Soil Indicators:	:			
☐ Histosol	☐ Bright	: Mottling Within a	Depleted Matrix	
☐ Histic Epipedon	☐ Conc	retions	•	
<ul><li>☐ Sulfidic Odor</li><li>☐ Aquic Moisture Re</li></ul>		Organic Content		
☐ Reducing Condition		nic Streaking in S d on Local Hydric		
Gleyed	Listed	d on National Hyd		
☐ Low-Chroma Color	rs 🗌 Other	(Explain in Rema	arks)	
USDA Hydric Soils Field	d Indicator:			
NRCS Mapped Type:				
Remarks:	and are de section of	ion		
Soil forming over fill from railro	oad grade constructi	on.		
SITE CONDITIONS AND	D WETLAND DE	ETERMINATION		
Site Conditions:	AILD			
Do normal circumstan	nces exist in the	plant community?	(If no explain)	Yes
Have the veg., soils, a			, ,	
Is the site a problem a		_	,	No
	· · · · · · · · · · · · · · · · · · ·	<b>-</b> /		
Remarks:				
Walland B. C. C.				
Wetland Determination				
Based on the foregoin	•	No		
•	e Liaminant?	No le Th		
Are Hydrophytic Plant		No IS II	is Sampling Point W	ithin A Wetland?
Are Hydrophytic Plant Is Wetland Hydrology	Present?	NO	. •	ithin A Wetland?
Are Hydrophytic Plant Is Wetland Hydrology Are Wetland Soils Pre	Present?	No IS II No	iis Sampling Point W <b>No</b>	ithin A Wetland?
Are Hydrophytic Plant Is Wetland Hydrology	Present?	NO	. •	ithin A Wetland?
Are Hydrophytic Plant Is Wetland Hydrology Are Wetland Soils Pre	Present?	NO	. •	ithin A Wetland?
Are Hydrophytic Plant Is Wetland Hydrology Are Wetland Soils Pre	Present?	NO	. •	ithin A Wetland?
Are Hydrophytic Plant Is Wetland Hydrology Are Wetland Soils Pre	Present?	NO	. •	ithin A Wetland?

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NE Quarter: Plant Community Area: Section: 16 A5 Transect: T1 Township: 8N Sample Site: A5T1S1 Range: 9E

#### **VEGETATION**

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Carex scoparia	Н	FACW	Phalaris arundinacea	Н	FACW+
Lythrum alatum	Н	OBL	Lythrum salicaria	Н	OBL
Poa palustris	Н	FACW+	Urtica dioica	Н	FAC+
Lycopus americanus	Н	OBL	Scirpus atrovirens	Н	OBL
Eupatorium perfoliatum	Н	FACW+	Mentha arvensis	Н	FACW+
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		100.0%			
Remarks:					

☐ Recorded Data (Describe in R	emarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gauge	)	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone
Field Observations:		<ul><li>✓ Water Marks</li><li>☐ Drift Lines</li><li>☐ None</li></ul>
Depth of Surface Water: No	one	☐ Sediment Deposits
Depth of Soil Pit: 18		<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit: No	one	
Depth to Saturated Soil: No	one	Secondary Indicators (2 or more required):
Remarks: Depression on stream terrace - water/sed.	marks in wheel ruts.	<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>None</li> </ul>

Map Unit Name: SABLE SILTY ( Taxonomy (Subgroup): Typic Haplaque		Drainage Class	: Poorly
	Field Observ	vations Confirm Map	ped Type? <b>No</b>
Profile Description:			
Matrix Color	Mottle Color	<u>Mottle</u>	Texture, Concretions,
Depth (in.) Horizon (Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 18 A 10YR 2/1	none	none	organic
Hydric Soil Indicators:			
	N.A 441i \ \ \ / (41- i	Danieta d Matrice	
✓ Histic Epipedon ☐ Concr		Depleted Matrix	
☐ Sulfidic Odor ☐ High (	Organic Content i	n Surface Layer	
	ic Streaking in S		
	on Local Hydric		
	on National Hyd (Explain in Rema		
	(Explain in Rom	arro,	
USDA Hydric Soils Field Indicator: A2			
•	nown		
Remarks:			
Nomano.			
SITE CONDITIONS AND WETLAND DE	TERMINATION		
Site Conditions:			
Do normal circumstances exist in the p	olant community?	(If no explain)	Yes
Have the veg., soils, and/or hydrology	-	, , ,	
Is the site a problem area? (If yes, exp	•	y diotarboa. (ii yoo,	No
	idiri)		110
Remarks:			
Wetland Determination:			
Based on the foregoing:			
Are Hydrophytic Plants Dominant?	Yes	. 0	// ·
Is Wetland Hydrology Present?	Yes Is In	is Sampling Point W	ithin A Wetland?
Are Wetland Soils Present?	Yes	Yes	
Remarks:			

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NE Quarter: Plant Community Area: Section: 16 A5 Transect: T1 Township: 8N Sample Site: A5T1S2 Range: 9E

Dominant Plant Species	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Chenopodium album	Н	FAC-	Solanum dulcamara	Н	FAC
Verbascum thapsus	Н	UPL	Sonchus arvensis	Н	FAC-
Lonicera X bella	S	FACU-	Abutilon theophrasti	Н	FACU-
Rubus idaeus	Н	FACU+	Taraxacum officinale	Н	FACU
Phalaris arundinacea	Н	FACW+	Carex spp.	Н	
			Lythrum alatum	Н	OBL
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		20.0%			
Remarks:					
On edge of depression, rising out of	f floodplain on	to fallow field a	nd RR grade.		

HYDROLOGY		
<ul><li>☐ Recorded Data (Describe i</li><li>☐ Stream, Lake or Tide Ga</li></ul>	•	Wetland Hydrology Indicators: Primary Indicators:
☐ Aerial Photo ☐ Other  Field Observations: Depth of Surface Water: Depth of Soil Pit: Depth to Free Water in Pit: Depth to Saturated Soil:	None 16 None None	☐ Inundated ☐ Saturated in Root Zone ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands ☐ Floodway  Secondary Indicators (2 or more required):
Remarks: Historic location of creek altered by RI		<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name: SABLE SILTY (			
Taxonomy (Subgroup): Typic Haplaque	_	Drainage Class	: Poorly
	Field Observ	vations Confirm Map	ped Type? <b>No</b>
Profile Description:		·	, ,,
Matrix Color	Mottle Color	Mottle	Texture, Concretions,
	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 16 A 10YR 2/1	none	none	organic
0 to 0			
Hydric Soil Indicators:			
☐ Histosof ☐ Bright ☐ Histic Epipedon ☐ Concre	-	Depleted Matrix	
	etions Organic Content i	n Surface Laver	
☐ Aquic Moisture Regime ☐ Organ	ic Streaking in S	andy Soils	
	on Local Hydric		
	on National Hyd (Explain in Rema		
	(Explain in Reme	arko)	
USDA Hydric Soils Field Indicator: A2			
•	nown		
Remarks:	IOWII		
Nomarks.			
SITE CONDITIONS AND WETLAND DE	TERMINATION		
Site Conditions:			
Do normal circumstances exist in the p	lant community?	(If no explain)	Yes
Have the veg., soils, and/or hydrology	-	(II 110, explain)	163
riave the veg., sons, and/or riyurology	Deen sidiiiilaiii	v dieturhad? (If vae	evnlain) No
Is the site a problem area? (If was even	•	y disturbed? (If yes,	• •
Is the site a problem area? (If yes, exp	•	y disturbed? (If yes,	explain) No No
Is the site a problem area? (If yes, exp Remarks:	•	y disturbed? (If yes,	' '
	•	y disturbed? (If yes,	' '
	•	y disturbed? (If yes,	' '
	•	y disturbed? (If yes,	' '
Remarks:	•	y disturbed? (If yes,	' '
Remarks:  Wetland Determination:	lain)		No
Remarks:  Wetland Determination: Based on the foregoing:	lain)	iis Sampling Point W	No
Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants Dominant?	lain)  No		No
Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants Dominant? Is Wetland Hydrology Present?	No No Is Th	iis Sampling Point W	No
Wetland Determination: Based on the foregoing: Are Hydrophytic Plants Dominant? Is Wetland Hydrology Present? Are Wetland Soils Present?	No No Is Th	iis Sampling Point W	No
Wetland Determination: Based on the foregoing: Are Hydrophytic Plants Dominant? Is Wetland Hydrology Present? Are Wetland Soils Present?	No No Is Th	iis Sampling Point W	No
Wetland Determination: Based on the foregoing: Are Hydrophytic Plants Dominant? Is Wetland Hydrology Present? Are Wetland Soils Present?	No No Is Th	iis Sampling Point W	No
Wetland Determination: Based on the foregoing: Are Hydrophytic Plants Dominant? Is Wetland Hydrology Present? Are Wetland Soils Present?	No No Is Th	iis Sampling Point W	No

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: A5 15 Transect: T2 Township: 8N Sample Site: A5T2S1 Range: 9E

#### **VEGETATION**

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Urtica dioica	Н	FAC+
Cornus sericea	S	FACW	Sicyos angulatus	Н	FACW-
Eupatorium maculatum	Н	OBL	Impatiens capensis	Н	FACW
Carex spp.	Н		Ribes americanum	S	FACW
			Prunella vulgaris	Н	FACU
Percent of Dominant Species that		75.09/			
OBL, FACW or FAC (excluding FA	AC-):	75.0%			
Remarks:					

☐ Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		Saturated in Root Zone
Field Observations:  Depth of Surface Water:  Depth of Soil Pit:	None 18	<ul> <li> Water Marks</li> <li> Drift Lines</li> <li> Sediment Deposits</li> <li> Drainage Patterns in Wetlands</li> <li> Floodway</li> </ul>
Depth to Free Water in Pit: Depth to Saturated Soil:	None None	Secondary Indicators (2 or more required):  Oxidized Root Channels in Root Zone
Remarks:		<ul><li>Water-Stained Leaves</li></ul>
Oxidized rhizospheres noted at 3-4 inc	ches.	<ul><li> Local Soil Survey Data</li><li>✓ FAC-Neutral Test</li><li> Other (Explain in Remarks)</li><li> None</li></ul>

lap Unit Name:	WACOUSTA S		Drainage Class	s: Very Poorly
axonomy (Subgroup	): Typic Haplaqu	olls		
		Field Obser	vations Confirm Map	oped Type? <b>No</b>
rofile Description:				
epth (in.) Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	<u>Texture, Concretions,</u> <u>Structure, Etc.</u>
0 to 6 A	10YR 2/2	none	none	SliL
6 to 14 B1	10YR 2/2	10YR 4/6	c2d	SiL
14 to 18 B2	10YR 5/2	10YR 4/6	c2d	SiCL
ydric Soil Indicator	s:			
<ul> <li>☐ Histosol</li> <li>☐ Histic Epipedon</li> <li>☐ Sulfidic Odor</li> <li>☐ Aquic Moisture R</li> <li>☐ Reducing Condit</li> <li>☐ Gleyed</li> <li>☑ Low-Chroma Col</li> </ul>	☐ Conc ☐ High legime ☐ Organ Instead ☐ Listed	retions Organic Content nic Streaking in S d on Local Hydric d on National Hydric (Explain in Rema	andy Soils Soils List Iric Soils List	
SDA Hydric Soils Fie RCS Mapped Type: emarks:		known		
IRCS Mapped Type: emarks: TE CONDITIONS AI	Unk			
IRCS Mapped Type: demarks: TE CONDITIONS AI	Unk ND WETLAND DE	ETERMINATION	2 (If no evoluin)	Vas
IRCS Mapped Type: emarks: TE CONDITIONS AI	Unk  ND WETLAND DE  ances exist in the , and/or hydrology	ETERMINATION  plant community been significantl		Yes explain) No No
TE CONDITIONS AI  Bite Conditions:  Do normal circumsta  Have the veg., soils	Unk  ND WETLAND DE  ances exist in the , and/or hydrology	ETERMINATION  plant community been significantl		explain) No

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI SW Quarter: Plant Community Area: Section: A5 15 Transect: T2 Township: 8N Sample Site: A5T2S2 Range: 9E

#### **VEGETATION**

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Verbascum thapsus	Н	UPL	Sicyos angulatus	Н	FACW-
Rhus typhina	S	NI	Rubus idaeus	Н	FACU+
Phalaris arundinacea	Н	FACW+	Aster novae-angliae	Н	OBL
Abutilon theophrasti	Н	FACU-	Solanum dulcamara	Н	FAC
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		25.0%			
Remarks:					

Recorded Data (Describe in	n Remarks):	Wetland Hydrology Indicators:
Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		<ul><li>Saturated in Root Zone</li></ul>
Field Observations:  Depth of Surface Water:  Depth of Soil Pit:	None	<ul> <li> Water Marks</li> <li> Drift Lines</li> <li> Sediment Deposits</li> <li> Drainage Patterns in Wetlands</li> <li> Floodway</li> </ul>
Depth to Free Water in Pit:		Secondary Indicators (2 or more required):
Depth to Saturated Soil: Remarks:	None	<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

•						
	Map Unit Name: WACOUSTA SILTY Drainage Class: Very Poorly					
Taxonomy (Subgroup): Typic Haplaquolls						
, , , ,		Field Observ	vations Confirm Map	ped Type? <b>No</b>		
Drafile Descriptions		5.4 555611	and Committed	700 1,700.		
Profile Description:	trix Color Mo	ttle Color	Mottle	Texture, Concretions,		
		nsell Moist)	(Abund./Contrast	Structure, Etc.		
	10YR 3/3	none	none	SiL		
	10YR 3/3	none	none	SiL/gravel		
<del>-</del>		- <del>-</del>		- <del>- 9</del>		
Undria Call Indiastana						
Hydric Soil Indicators:						
☐ Histosol			Depleted Matrix			
<ul><li>☐ Histic Epipedon</li><li>☐ Sulfidic Odor</li></ul>	☐ Concretion		n Curfoca I acces			
☐ Aquic Moisture Regim		nic Content i reaking in Sa	n Surface Layer andy Soils			
Reducing Conditions		ocal Hydric				
Gleyed	Listed on N	National Hyd	ric Soils List			
☐ Low-Chroma Colors	□ Other (Exp.)	lain in Rema	arks)			
USDA Hydric Soils Field Inc						
NRCS Mapped Type:	Unknowr	1				
Remarks:						
Probably fill or wash associated wi	th the railroad grade.					
SITE CONDITIONS AND W	ETLAND DETER	MINATION				
Sita Canditions:						
Site Conditions:						
Do normal circumstances	exist in the plant	community?	(If no, explain)	Yes		
	•	•	` ' '			
Do normal circumstances	or hydrology beei	n significantly	` ' '			
Do normal circumstances Have the veg., soils, and/ Is the site a problem area	or hydrology beei	n significantly	` ' '	explain) <b>No</b>		
Do normal circumstances Have the veg., soils, and/	or hydrology beei	n significantly	` ' '	explain) <b>No</b>		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area	or hydrology beei	n significantly	` ' '	explain) <b>No</b>		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:	or hydrology beei	n significantly	` ' '	explain) <b>No</b>		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination:	or hydrology beei	n significantly	` ' '	explain) <b>No</b>		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing:	or hydrology beer (or hydrology beer (or (If yes, explain)	n significantly	` ' '	explain) <b>No</b>		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D	or hydrology been on the following of the following on th	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre	or hydrology been (or hydrology	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D	or hydrology been (or hydrology been or hydrology) been ominant?	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre	or hydrology been (or hydrology	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre Are Wetland Soils Preser	or hydrology been (or hydrology been or hydrology) been or hydrology been or hydrology been or hydrology been or hydrology been the hydrology been or hydrology been the hydrology been	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre Are Wetland Soils Preser	or hydrology been (or hydrology been or hydrology) been or hydrology been or hydrology been or hydrology been or hydrology been the hydrology been or hydrology been the hydrology been	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre Are Wetland Soils Preser	or hydrology been (or hydrology been or hydrology) been or hydrology been or hydrology been or hydrology been or hydrology been the hydrology been or hydrology been the hydrology been	n significantly	y disturbed? (If yes, o	explain) No No		
Do normal circumstances Have the veg., soils, and/ Is the site a problem area Remarks:  Wetland Determination: Based on the foregoing: Are Hydrophytic Plants D Is Wetland Hydrology Pre Are Wetland Soils Preser	or hydrology been (or hydrology been or hydrology) been or hydrology been or hydrology been or hydrology been or hydrology been the hydrology been or hydrology been the hydrology been	n significantly	y disturbed? (If yes, o	explain) No No		

(1987 COE Wetlands Determination Manual)

Project Name:	ATC North Madison to Huiskamp	Date:	09/15/2005
Project Number:	2005-0194	County:	Dane
Observers:	RGD	State:	WI
		Quarter:	NW
Plant Community Area:	A6	Section:	22
Transect:	T1	Township:	8N
Sample Site:	A6T1S1	Range:	9E

### **VEGETATION**

<b>Dominant Plant Species</b>	<u>Stratum</u>	Indicator	Secondary Plant Species	Stratum	Indicator
Helianthus grosseserratus	Н	FACW-	Aster lateriflorus	Н	FACW-
Phalaris arundinacea	Н	FACW+	Amaranthus retroflexus	Н	FACU+
Solidago gigantea	Н	FACW			
Percent of Dominant Species tha OBL, FACW or FAC (excluding F		100.0%			
Remarks:					
JYDBOLOCY					

☐ Recorded Data (Describe in	Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Gau	ıge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone
Depth of Soil Pit:	None 16	<ul> <li> Water Marks</li> <li> Drift Lines</li> <li> Sediment Deposits</li> <li> Drainage Patterns in Wetlands</li> <li> Floodway</li> </ul>
	None None	Secondary Indicators (2 or more required):
Remarks: Unmaintained ditch and box culvert und		<ul> <li>✓ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>□ None</li> </ul>

Map Unit Name: Taxonomy (Subgroup):	VIRGIL SILT L Udollic Ochraq		Drainage Class	: Somewhat Poorly
, (gap).			vations Confirm Map	ped Type? <b>No</b>
B (11 B ) (1		Field Observ	rations Committi Map	ped Type: NO
Profile Description:	Matrix Color	Mottle Color	Mottle	Texture, Concretions,
	Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.
0 to 8 A	10YR 3/1	none	none	SiL
8 to 16 B	10YR 3/2	10YR 4/6	c2d	SiCL
Hydric Soil Indicators:				
☐ Histosol		. N.A	Daniel J.M. C.	
☐ Histic Epipedon		: Mottling Within a retions	Depleted Matrix	
Sulfidic Odor	☐ High (	Organic Content i	n Surface Layer	
☐ Aquic Moisture Reg	gime 🗌 Orgar	nic Streaking in S	andy Soils	
<ul><li>☐ Reducing Condition</li><li>☐ Gleyed</li></ul>		d on Local Hydric		
Low-Chroma Colors	- —	d on National Hyd (Explain in Rema		
	_ 00161	(=xpidiii iii Nollie		
USDA Hydric Soils Field	Indicator: F2			
NRCS Mapped Type:		known		
Remarks:	31110	<del>-</del> • • • •		
Oxidized rhizospheres observe	edat 8-10 inches.			
·				
SITE CONDITIONS AND	WETLAND DE	ETERMINATION		
Site Conditions:				
Do normal circumstan	ces exist in the	plant community?	(If no, explain)	Yes
Have the veg., soils, a	nd/or hydrology	been significantly	y disturbed? (If yes,	explain) <b>No</b>
Is the site a problem a	rea? (If yes, exp	olain)		No
Remarks:	-			
Nomans.				
Watland Datarminatia	<b>.</b>			
Wetland Determination				
Based on the foregoin	•	Voc		
Are Hydrophytic Plants		Yes Is Th	is Sampling Point W	ithin A Wetland?
Is Wetland Hydrology  Are Wetland Soils Pre		res	Yes	
	Sent?	Yes	. 33	
Remarks:				

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NWQuarter: Plant Community Area: Section: A6 22 Transect: T1 Township: 8N Sample Site: A6T1S2 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	<u>Indicator</u>
Phalaris arundinacea	Н	FACW+	Cirsium arvense	Н	FACU
Abutilon theophrasti	Н	FACU-	Taraxacum officinale	Н	FACU
Chenopodium album	Н	FAC-			
Amaranthus retroflexus	Н	FACU+			
Plantago major	Н	FAC+			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		40.0%			
Remarks:					
Plowed but unplanted farm field.					

HYDROLOGY		
☐ Recorded Data (Describe i	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone ☐ Water Marks ✓ None
Field Observations:		☐ Drift Lines
Depth of Surface Water:	None	☐ Sediment Deposits
Depth of Soil Pit:	18	<ul><li>☐ Drainage Patterns in Wetlands</li><li>☐ Floodway</li></ul>
Depth to Free Water in Pit:	None	
Depth to Saturated Soil:	None	Secondary Indicators (2 or more required):
Remarks:		<ul> <li>Oxidized Root Channels in Root Zone</li> <li>Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name: VIRGIL SILT LOAM Drainage Class: Somewhat Poorly Taxonomy (Subgroup): Udollic Ochraqualfs								
Drofile Decarinties								
Profile Description:	Matrix Color	Mottle Color	Mottle	Texture, Concretions,				
Depth (in.) Horizon (	Munsell Moist)	(Munsell Moist)	(Abund./Contrast	Structure, Etc.				
0 to 9 Ap	10YR 3/1	none	none	SiL				
9 to 18 B	10YR 3/2	10YR 4/6	c1d	SiCL				
Hydric Soil Indicators:	:							
☐ Histosol		CNA-GCNACGE	Destate J Mate					
Histic Epipedon		t Mottling Within a retions	Depleted Matrix					
Sulfidic Odor	☐ High	Organic Content i	n Surface Layer					
☐ Aquic Moisture Re	gime 🗌 Orgai	nic Streaking in S	andy Soils					
<ul><li>☐ Reducing Conditio</li><li>☐ Gleyed</li></ul>		d on Local Hydric						
Low-Chroma Colo		d on National Hyd (Explain in Rema						
		(Explain in Nema	arks)					
USDA Hydric Soils Field	d Indicator: Nor	ne						
NRCS Mapped Type:		nown						
Remarks:	OIII	iowii						
Soils plowed, probably in spri	na.							
cons promos, prosses, in opin	9.							
SITE CONDITIONS ANI	D WETLAND DI	ETERMINATION						
Site Conditions:								
Do normal circumstar	ncae aviet in the	plant community?	(If no explain)	Yes				
Have the veg., soils,		•						
Is the site a problem a	, ,,	ŭ	y disturbed: (ii yes,	NO NO				
•	alea! (II yes, ex	piairi)		NO				
Remarks:								
Wetland Determination	on:							
Based on the foregoir	ng:							
Are Hydrophytic Plant	ts Dominant?	No		Part A MAL AL LO				
Is Wetland Hydrology	Present?	No Is Th	is Sampling Point W	/ithin A Wetland?				
Are Wetland Soils Pre	esent?	Yes	No					
Remarks:								

(1987 COE Wetlands Determination Manual)

Project Name: ATC North Madison to Huiskamp 09/15/2005 Date: Project Number: 2005-0194 County: Dane Observers: RGD State: WI NWQuarter: Plant Community Area: Section: Α7 22 Transect: T1 Township: 8N Sample Site: A7T1S1 Range: 9E

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	Stratum	Indicator
Phalaris arundinacea	Н	FACW+	Parthenocissus inserta	V	FACU
Helianthus grosseserratus	Н	FACW-	Aster lateriflorus	Н	FACW-
Salix amygdaloides	Т	FACW	Solidago canadensis	Н	FACU
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		100.0%			
Remarks:					
Depression along ROW next to tow	er - may have	been created b	y construction of sewer line (new ma	nhole evident	t).
LIVEROLOGY					

HYDROLOGY					
☐ Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:			
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:			
☐ Aerial Photo		☐ Inundated			
☐ Other		☐ Saturated in Root Zone			
Field Observations:		<ul><li> Water Marks</li><li> □ None</li><li> □ Sediment Deposits</li></ul>			
Depth of Surface Water:	None	☐ Drainage Patterns in Wetlands			
Depth of Soil Pit:	16	☐ Floodway			
Depth to Free Water in Pit:	None	_ ,			
Depth to Saturated Soil: None		Secondary Indicators (2 or more required):			
Remarks:		<ul> <li>✓ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>□ None</li> </ul>			

Map Unit Name: VIRGIL SILT LOAM Drainage Class: Somewhat Poorly Taxonomy (Subgroup): Udollic Ochraqualfs							
Field Observations Confirm Mapped Type? <b>No</b>							
Drofila Dogarintian							
Profile Description:  Matrix	Color Mottle 0	Color	Mottle	Texture, Concretions,			
Depth (in.) Horizon (Munse			nd./Contrast	Structure, Etc.			
0 to 6 A 10Y	R 3/1 non	е	none	SiL			
6 to 16 B 10Y	R 3/2 10YR	4/6	c1d	SiCL			
Hydric Soil Indicators:							
☐ Histosol	☐ Bright Mottling \	Within a Deple	eted Matrix				
Histic Epipedon	Concretions	-					
<ul><li>☐ Sulfidic Odor</li><li>☐ Aquic Moisture Regime</li></ul>	High Organic C		•				
☐ Reducing Conditions	<ul><li>☐ Organic Streak</li><li>☐ Listed on Local</li></ul>	•					
☐ Gleyed	Listed on Natio						
☐ Low-Chroma Colors	$\square$ Other (Explain	•					
USDA Hydric Soils Field Indica							
NRCS Mapped Type:	Unknown						
Remarks:							
Oxidized rhizospheres observed at 8 i	nches.						
OITE COMPITIONS AND WITH	I AND DETERMINE	A TION:					
SITE CONDITIONS AND WET	LAND DETERMIN	ATION					
Site Conditions:	dag ta gla a da d		1-1-V	V-			
Do normal circumstances ex	•	• `	,	Yes			
Have the veg., soils, and/or		nilicantly distu	rbea? (IT yes, e	• •			
Is the site a problem area? (	ıı yes, expiain)			No			
Remarks:							
Wetland Determination:							
Based on the foregoing:							
Are Hydrophytic Plants Dom	inant? Yes	le Thic Son	nnling Doint Wi	thin A Metland?			
Is Wetland Hydrology Prese	nt? Yes	is this san	. •	thin A Wetland?			
Are Wetland Soils Present?	Yes		Yes				
Remarks:							

(1987 COE Wetlands Determination Manual)

Project Name:	ATC North Madison to Huiskamp	Date:	09/15/2005
Project Number:	2005-0194	County:	Dane
Observers:	RGD	State:	WI
		Quarter:	NW
Plant Community Area:	A7	Section:	22
Transect:	T1	Township:	8N
Sample Site:	A7T1S2	Range:	9E

### **VEGETATION**

<b>Dominant Plant Species</b>	Stratum	Indicator	Secondary Plant Species	<b>Stratum</b>	<u>Indicator</u>
Helianthus grosseserratus	Н	FACW-	Phalaris arundinacea	Н	FACW+
Rhus typhina	S	NI	Vicia sativa	Н	FACU-
Poa pratensis	Н	FAC-			
Medicago sativa	Н	NI			
Solidago canadensis	Н	FACU			
Percent of Dominant Species that OBL, FACW or FAC (excluding FA		20.0%			
Remarks:					

☐ Recorded Data (Describe i	n Remarks):	Wetland Hydrology Indicators:
☐ Stream, Lake or Tide Ga	uge	Primary Indicators:
☐ Aerial Photo		☐ Inundated
☐ Other		☐ Saturated in Root Zone
Field Observations:  Depth of Surface Water:  Depth of Soil Pit:  Depth to Free Water in Pit:  Depth to Saturated Soil:  Remarks:	None 16 None None	<ul> <li>Water Marks</li> <li>□ Drift Lines</li> <li>□ Sediment Deposits</li> <li>□ Drainage Patterns in Wetlands</li> <li>□ Floodway</li> <li>Secondary Indicators (2 or more required):</li> <li>□ Oxidized Root Channels in Root Zone</li> <li>□ Water-Stained Leaves</li> <li>□ Local Soil Survey Data</li> <li>□ FAC-Neutral Test</li> <li>□ Other (Explain in Remarks)</li> <li>✓ None</li> </ul>

Map Unit Name: VIRGIL SILT LOAM Drainage Class: Somewhat Poorly Taxonomy (Subgroup): Udollic Ochraqualfs						
Field Observations Confirm Mapped Type? No						
Profile Description:	Motrix Calar	Mottle Calan	Maula	Touture Companying		
•	Matrix Color Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abund./Contrast	<u>Texture, Concretions,</u> <u>Structure, Etc.</u>		
0 to 8 A	10YR 3/1	none	none	SiL		
8 to 16 B	10YR 3/2	10YR 4/4	f1f	SiCL		
Hydric Soil Indicators:						
Hydric Soil Indicators:  Histosol						
Site Conditions:  Do normal circumstances exist in the plant community? (If no, explain)  Have the veg., soils, and/or hydrology been significantly disturbed? (If yes, explain)  Is the site a problem area? (If yes, explain)  Remarks:  Wetland Determination:  Based on the foregoing:  Are Hydrophytic Plants Dominant?  Is This Sampling Point Within A Wetland?  No  Remarks:  No  Remarks:						
кетатку:						